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some form which, if at present unknown, must once have existed; or, more accurately, diverging from such a common ancestor. It will also be made apparent that in every age there were forms which varied from the parent stem which lived for a longer or a shorter period and then became extinct.

"Very valuable museum demonstrations could be made by fitting up a comparatively large apparatus to the glass plates of which were cemented real fossils with their names. Ammonites and Brachiopods, for instance, are well fitted for this purpose. Affinities and variations would in this case be illustrated by the actual specimens, and so be vividly impressed upon the mind."—*Proc. Royal Dublin Society.*

— The Ottawa Field Naturalists' Club evinces its activity in promptly issuing its Transactions, Vol. II, No. I. The club has for four years maintained a strictly local character, and to this is ascribed whatever success it has attained. The subjects treated refer to the local flora of Ottawa, the sand plains of the Upper Ottawa, the fossils of Ottawa, edible and poisonous fungi, a list of the Coleoptera of Ottawa, and the deer of Ottawa valley, with reports of the different branches or sections into which the society is subdivided. If every city in America had such a local, enterprising society, and there are a few which have, what an increased interest in and respect for the study of nature would pervade our people! Its effects would be seen in our common schools; it would ameliorate the degrading materialism of our times, tone down the love of display and lavish expenditure in moneyed circles, and here and there give room for the growth and development of trained observers of nature.

— The records of the Society of Naturalists of the Eastern United States, vol. I, part I, Boston, 1884, contains the constitution and by-laws with a list of members; a copy of the original call for the organization of the society; with the records of the first meeting at Springfield, Mass., and the second meeting at New York, Dec. 27 and 28, 1883.

— A department of veterinary medicine and surgery has been recently established in connection with the University of Pennsylvania. Dr. R. S. Huidekoper has been placed in charge.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

AMERICAN ASSOCIATION FOR ADVANCEMENT OF SCIENCE, Philadelphia meeting, Sept. 4-11, 1884.

SECTION E—GEOLOGY AND GEOGRAPHY.

The geological age, character and origin of the gypsum beds of Cayuga county, N. Y. S. G. Williams.

The correlation of the lower coal measures of Ohio and Eastern Kentucky. Edward Orton.

On a section of the strata of Cretaceous and Tertiary formations of Alabama. Eugene A. Smith and L. C. Johnson.

- On some fish remains recently discovered in the Silurian rocks of Penna. E. W. Claypole.
- The horizons of petroleum and inflammable gas in Ohio. Edward Orton.
- A review of the geology of Delaware. Results of a survey now in progress. Frederick D. Chester.
- The saltwell at Humboldt, Minn. N. H. Winchell.
- Geographical and physical conditions as modifying fossil faunas. H. S. Williams.
- On some large and peculiar fossil fishes from Ohio and Indiana. J. S. Newberry.
- On the geological survey of New Jersey. Geo. H. Cook.
- The chemical erosion of limestone of the Appalachian system. A. S. Ewing.
- Deep-sea sounding in the Caribbean sea. J. R. Bartlett.
- The profile of Nicaragua, geographical and commercial. Capt. Bedford Pim, R.N.
- The pilot chart of the North Atlantic ocean. J. R. Bartlett.
- Metamorphism in the Huronian of the Northwest. R. D. Irving.
- Identification of the Green Mountain gneisses in Eastern New England. C. H. Hitchcock.
- Notice of a new and very important work on the origin of the crystalline schists, by Dr. I. Lehman. Geo. H. Williams.
- Occurrence of boulders of decomposition and gneiss at Washington, D. C. J. W. Spencer.
- A great trap dyke across Southeastern Pennsylvania. H. Carvill Lewis.
- A study of *Eozoon canadense*. Alexis A. Julien.
- The second geological survey of Pennsylvania. Chas. A. Ashburner.
- A brief account of the remarkable explorations in Thibet, Mongolia and the frontiers of India and China, recently made by Kreshna, or A. K., a native surveyor, trained under the Trigonometrical Survey of India, with official map. Trelawney Saunders.
- New identifications in biblical geography, based on the recent survey of Western Palestine, made for the Palestine Exploring Fund, with the great map of the survey and the reduced map of the Old Testament, Apocrypha and Josephus, derived therefrom. Trelawney Saunders.
- An attempt to determine the amount of chemical erosion taking place in the limestone (Calcareous to Trenton) valley of Center county, Pa., and hence applicable to similar regions throughout the Appalachian system. A. S. Ewing.
- On the relative level of the Atlantic ocean and Gulf of Mexico, with remarks on the Gulf Stream and deep-sea temperatures. J. E. Hilgard.
- Recent improvements in apparatus and methods of sounding ocean depths. Daniel Ammen.
- Sketch of the life and scientific work of Dr. Arnold Guyot. Wm. Libbey, Jr.
- On the intimate relations of the Chemung and Waverly groups in the N. W. portions of Pennsylvania and S. W. part of New York. James Hall.
- On the Eurypteridæ of the Devonian and Carboniferous systems of the U. S., with a supplementary note on a species of *Stylonurus*. James Hall.
- British earthquakes and their seismic relations. Richard Owen.
- Geographic classification, illustrated by a study of plains, plateaus and their derivatives. W. M. Davis.
- On the ultimate results of converting the basin of the Desert of Sahara into an inland lake. P. H. Vander Weyde.
- Note on Cassiterite from King's mountain, N. C. Chas. W. Dabney, Jr.
- North Carolina phosphates. Chas. W. Dabney, Jr.
- Native antimony from Prince William parish, York county, New Brunswick. Geo. F. Kunz.
- A study of one point in the archæanpalæozoic contact line in S. E. Pennsylvania. Persifor Frazer.
- Evidences of local glaciers in the Catskill Mountain region. John C. Smock.
- Sand boulders in drift at Columbia, Mo. J. W. Spencer.
- The Missouri coteau and its moraines. J. E. Todd.
- Cause of motion in glaciers. Chas. Whittlesey.
- The genesis and conservation of volcanic energy. J. W. Pike.
- Exhibition of a geological map of the U. S., and a geological map of New York, New Jersey and Pennsylvania. J. W. Powell.
- On the physical conditions of the interior of the earth. H. Hennessy.
- Musical sand, its wide distribution and properties. H. C. Bolton.

- Musical sand, its wide distribution and properties. H. Carrington Bolton and Alexis A. Julien.
 Notice on the microscopical examination of a series of ocean, lake, river and desert sands. Alexis A. Julien and H. Carrington Bolton.
 On the erosive action of ice. J. S. Newberry.
 Additional facts concerning the glacial boundary in Kentucky, Indiana and Illinois. G. F. Wright.
 Deflections in the direction of the iceflow in Maine during the last part of the glacial epoch. O. H. Stone.
 On two series of Kame or Osar gravels which appear to cross each other like an X. Geo. H. Stone.

SECTION F—BIOLOGY.

- On *Ctenacanthus* and *Gyracanthus* from the Chemung of Pennsylvania. E. W. Clappole.
 On a special function of the external third of the lenticular nucleus of the corpus striatum. Charles Porter Hart.
 Observations upon the amphibian brain, from a comparison of *Amphiuma*, *Menopoma* and *Menobranchus*. Henry F. Osborne.
 Fertility in hybridization. R. B. Roosevelt.
 On the skin of insects. C. S. Minot.
 Hibernation of the lower vertebrates. A. W. Butler.
 The development of *Limulus*. J. S. Kingsley.
 Do the cerebellum and oblongata represent two encephalic segments or only one? Burt G. Wilder.
 On the morphology and evolution of the tail of osseous fishes. John A. Ryder.
 On the mammalian affinities of the saurians of the Permian epoch. Edward D. Cope.
 On finger muscles in *Megaptera longimana* and in other whales. John Struthers.
 Some observations on the influence of oxygenated and unoxygenated blood, as well as of blood in various degrees of dilution on the isolated heart of the frog and terrapin. H. G. Beyer.
 Affinities of *Dionæa*. Jos. F. James.
 Biological problems. C. S. Minot.
 A botanical study of the mite-gall found on the petiole of *Juglans nigra*, known as *Erineum anomalum* Schw. Lillie J. Martin.
 The habits of some Arvicolinæ. Edgar R. Quick and A. W. Butler.
 The existence and dorsal circumscription of the portæ (foramen of Monro) in the adult human brain. Burt G. Wilder.
 The relative position of the cerebrum and the cerebellum in anthropoid apes. Burt G. Wilder.
 Observations on the phylogeny of the Artiodactyla Mammalia, derived from American fossils. E. D. Cope.
 The torsion of leaves. W. J. Beal.
 The fossil flora of the globe: historical view. Lester F. Ward.
 The fossil flora of the globe: geological view. Lester F. Ward.
 The fossil flora of the globe: botanical view. Lester F. Ward.
 Influence of isolation upon vegetation. E. Lewis Sturtevant.
 The hood of the hooded seal (*Cystophora cristata*). C. Hart Merriam.
 Remarks of delegate from the Ornithologischer verein in Wien. C. Hart Merriam.
 Polarity of leaves of *Erigeron canadense*. W. J. Beal.
 On some points in the development of pelagic teleostean eggs. George Brook, Jr.
 The dynamics of the insect-crust. Geo. Macloskie.
 Some questions in anatomical nomenclature. Burt G. Wilder.
 Experimental researches on the so-called thought transference. W. F. Barrett.
 Alleged sensory effects of magnetism. L. F. Barrett.
 On the presence of eyes and other sense organs on the shells of Chitonidæ. H. N. Moseley.
Utricularia vulgaris with young teleostean fishes entrapped in the bladder-traps of that plant. H. N. Moseley.
 Feathers of the Dodo. H. N. Moseley.
 Experimental research relating to the etiology of tuberculosis. Geo. M. Sternberg.

- Preliminary note on the lymphatics of the common bull-head (*Amiurus catus*). F. L. Kilborne and S. H. Gage.
- On the nervous system of Comatula, with observations on the mutual affinities of the recent group of Echinoderms. A. Milnes Marshall.
- Stomata on seeds. Geo. Macloskie.
- Structure and development of suspensory ligament in the horse, ox and sheep. D. J. Cunningham.
- Ethidene dichloride as an anæsthetic. John G. McKendrick.
- The influence of cross-fertilization upon the development of the strawberry. Wm. R. Lazenby.
- On the extinction of species. Thomas Meehan.
- On the hitherto unknown mode of oviposition in the Carabidæ. C. V. Riley.
- Larval theory of the origin of tissue. Alpheus Hyatt.
- Objections to some commonly accepted views of heredity. Alpheus Hyatt.
- Structure and affinities of Beatricea. Alpheus Hyatt.
- Structure of the siphon in the Endoceratidæ. Alpheus Hyatt.
- Researches on growth and death. Charles S. Minot.
- The osteology of Oreodon. W. B. Scott.
- Vesiculæ seminales of the Guinea pig. C. S. Minot.
- A new parasitic Copepod from the clam (*Mya arenaria*). R. Ramsay Wright.
- Preliminary notes on the delicacy of the special senses. E. H. S. Bailey and E. L. Nichols.
- The adventitious inflorescence of *Cuscuta glomerata*. C. E. Bessey.
- On the identification of the animals and plants of India which are mentioned by ancient Greek authors. V. Ball.
- The comparative longevity of the sexes. Mrs. A. B. Blackwell.

SECTION G—MICROSCOPY.

- On the reproduction of short standards of length. Wm. A. Rogers.
- On some new microscopic devices. R. H. Ward.
- Recent studies on the theory of the microscope and their practical results as regards the use of the microscope in scientific investigations. R. Hitchcock.
- On some points in microtomy. John A. Ryder.
- Upon a microscopic method of studying the amphibian brain. Henry F. Osborne.
- Histology of Lingula. H. G. Beyer.
- Description of the Schröder camera lucida. R. Hitchcock.
- Demonstrations of perforations in the cellulose walls of plant-cells. Louis Elsberg.

SECTION H—ANTHROPOLOGY.

- Upon the evolution of a race of deaf-mutes in America. A. Graham Bell.
- Formation of Iroquois words. Erminnie A. Smith.
- The occurrence of man in the Upper Miocene of Nebraska. Edward D. Cope.
- The lineal measures of the semi-civilized nations. D. G. Brinton.
- A search in British North America for the lost colonies of Northmen and Portuguese. D. G. Haliburton.
- Some characteristics of the Indian earth and shell mounds on the Atlantic coast of Florida. Andrew E. Douglass.
- The manner in which Indians made their stone implements. P. R. Hoy.
- The sacred pipes of friendship. Frank LaFlesche.
- Some observations upon the usage, symbolism and influence of the sacred pipes of friendship among the Omahas. Alice C. Fletcher.
- Interviews with a Korean. Edward S. Morse.
- Remarks on North American races and civilization. E. B. Tylor.
- Some parallelism in the evolution of races in the old and new world. Daniel Wilson.
- The use of the plough in Japan. Edward S. Morse.
- The three culture periods. J. W. Powell.
- The sacrificial stone of San Juan Teotihuacan. A. W. Butler.
- The different races who built mounds in Wisconsin. Stephen D. Peet.
- Etymology of the Iroquois word Rha-wen-ni-yu. Erminnie A. Smith.
- Evolution of animal life illustrated by study of emblematic mounds. Stephen D. Peet.

- Eastern archery. Edward S. Morse.
 Uses of the emblematic mounds. Stephen D. Peet.
 Notes upon some quartz objects from Central Minnesota. Miss F. E. Babbitt.
 The importance of the study of primitive architecture to an understanding of the pre-historic age in America. Stephen D. Peet.
 Local weather lore. Amos W. Butler.
 Disputed points concerning Iroquois pronouns. Erminnie A. Smith.
 Archæological explorations by the Peabody Museum of American Archæology and Ethnology, communicated at the request of the trustees of the museum. F. W. Putnam.
 Description of the skeletons and skulls found in the large mound of the Turner group. Miss C. A. Studley.
 Mythology of the Wintuns. J. W. Powell.
 On the geographical distribution of labretifery. W. H. Dall.

SECTION I—ECONOMIC SCIENCE AND STATISTICS.

- The principles of graphic illustration. Franklin B. Hough.
 On the credit of the United States Government. E. B. Elliott.
 The future of the United States. J. B. Martin.
 The structure and economic value of some of our woods. P. H. Dudley.
 Lands in severalty to Indians. Illustrated by experiences with the Omaha tribe. Alice C. Fletcher.
 Condition of deaf-mutes and deaf-mute instruction in the United States, statistically considered. J. W. Chickering, Jr.
 Production and distribution. Edw. Atkinson.
 Upon the expediency of a proposed "new departure" in the form of schools for the education of deaf mutes. Joseph C. Gordon.
 On indexing the literature of science. B. Pickman Mann.
 Percentages and costs of nutrients in foods. W. O. Atwater.
 Irregularity in railroad building a chief cause of recent business depressions. William Kent.
 Some experiments in a new method of land cultivation by the use of dynamite, and the important results obtained. George W. Holley.
 The apprenticeship question and industrial schools. Thos. Hampson.
 The learned professions and the public. 1870-1880. Chas. Warren.
 The aims and methods of manual training schools. C. M. Woodward.
 On the application of the historical method to questions in economic science. T. B. Browning.
 A new resource for the women of the United States. Silk culture. Lorin Blodget.
 Some economic and social effects of machinery. Edward T. Peters.
 A discussion of the principles involved in the general action of vegetation and of trees especially to prevent extremes of temperature. James Hyatt.
 National identity in its economic aspect. Lorin Blodget.
 Brief outlines of the investigations upon the power to move railroad trains and the mechanical inspection of railroad tracks, as made by the dynagraph and track inspection car. P. H. Dudley.
 An account of the first general census of India. Trelawney Saunders.
 The uses of great expositions. Lyndon A. Smith.
 American production for American consumption. J. R. Dodge.
 A review of the proceedings of the section of economic science and statistics at the Montreal meeting B. A. A. S. Chas. W. Smiley.
 Commercial relations of the United States with Spain and her colonies. His excellency Don Arturo de Marcoartu.
 The American pearl. Geo. F. Kunz.
 The philosophy of criminal development. Lewis W. Haupt.
 An illustration of the results produced by the artificial propagation of fish. Chas. W. Smiley.
 The education of pauper children, industrially and otherwise. James O. Bevan.
 On technical education in the British Islands. Henry Hennessy.
 Natural scheme of high culture in the U. S. of America. Knut Fersberg.